

TECHNICAL SESSIONS LISTING

To view a Session: click on the title of that session.

Capture and Separation - Membranes and Sorbents

Chair: Gary T. Rochelle (U TX Austin)

Agenda

Hydrogen Membrane Selection for a Water Gas Shift Reactor

Cliff Lowe (Chevron/Texaco)

Analysis of Hydrogen and Co-Product Electricity Production from Coal with Near-zero Pollutant and CO₂ Emissions using an Inorganic Hydrogen Separation Membrane Reactor

Thomas G. Kreutz (Princeton), Paolo Chiesa, Robert H. Williams

CO₂ Separations Using High-Temperature Polymeric-Metallic Composite Membranes

Jennifer S. Young (LANL), Brent F. Espinoza, Kathryn A. Berchtold, Gregory S. Long, Gordon D. Jarvinen, Betty S. Jorgensen, Alan R. Greenberg, Vivek Khare, Christopher J. Orme, Alan K. Wertsching, John R. Klaehn, Eric S. Peterson, Jim Acquaviva, Frank Onorato

New Solid Amine Sorbents

McMahan L. Gray (NETL), Y. Soong, K. J. Champagne, H. Pennline, J. Baltrus, R. W. Stevens, Jr., R. Khatri S. S. C. Chuang, S. Khan, T. Filburn

CO₂ Separation from Flue Gas: Evaluation of a Solid Sorbent Based Process

Piergiorgio Zappelli (EniTecnologie, Italy), E. Gambarotta, V. Meda, A. Tortorella

A Novel CO₂ Absorbent using Lithium-containing Oxides

Kazuaki Nakagawa (Toshiba, Japan), Sawako Yoshikawa, Kenji Essaki, Hideo Uemoto

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Sequestration - Geologic Field Projects (1)

Chair: Charles Byrer (NETL)

Agenda

Planning for a Geologic Storage Demonstration in the Ohio River Valley Region

Neeraj Gupta (Battelle), James Dooley, Mike Mudd, Charles Byrer, T. S. Ramakrishnan, Charles Christopher

The GEO-SEQ Project: Three Years of Progress

Sally M. Benson (Lawrence Berkeley), Larry Myer

Tapping the Potential for Large Volume Sequestration-Update on the Frio Brine Pilot Project

Susan D. Hovorka (Univ. of Texas), Paul R. Knox, Mark H. Holtz, Joseph S. Yeh, Khaled Fouad, Shinichi Sakurai

Acid Gas Injection in the Alberta Basin: A Commercial-Scale Analogue for CO₂ Geological Sequestration in Sedimentary Basins

Stefan Bachu (Alberta Geological Survey), J. J. Adams, K. Michael, B. E. Buschkeuhle

The Weyburn CO₂ Monitoring and Storage Project

Carolyn Preston (CANMET Energy Technology Centre, NRCan)

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Sequestration - Terrestrial Baselines

Chair: Bruce McCarl (Texas A&M)

Agenda

Developing an Effective Approach for Assessment of Terrestrial Carbon Inventories and Dynamics: Challenges and Promise

David D. Breshears (LANL), Michael H. Ebinger, Pat J. Unkefer, David A. Cremers

Quantifying the Change in Greenhouse Gas Emissions due to Natural Resource conservation Practice Application in the States of Iowa, Indiana, and Nebraska

John Brenner (USDA-Natural Resources Conservation Service), Keith Paustian

Developing Baselines for Land Use Change and Forestry GHG Offset Projects: Potential Use of Nationally Available Data as Platform

Ben DeAngelo (EPA), Brian Murray, Allan Sommer, Subhrendu Pattanayak, Jui-Chen Yang, Bill Wheaton, Jamie Chaika, Ken Andrasko

Economic Evaluation of CO₂ Storage and Sink Enhancement Options

B. R. Bock (TVA), R. G. Rhudy, H. J. Herzog

Carbon Sequestration by Forests and Soils on Mined Land in the Appalachian Region: Preliminary Results and On-going Studies

James A. Burger (VA Polytechnic Institute and State Univ)

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Programs and Policy (1)

Chair: Scott Klara (NETL)

Agenda

The Energy Policy Consequences of Future CO₂ Capture and Sequestration Technologies

Dolf Gielen (International Energy Agency, France)

A Database of Carbon Sequestration R&D Activities in the United States

*Robert Kane (DOE), *Daniel Klein*

Carbon Capture and Sequestration in Climate Models: State of the Art, Future Directions, and Research Needs

Robert T. Dahowski (Joint Global Change Research Inst.), J. J. Dooley, J. A. Edmonds, M. A. Wise

Progress of the CO₂ Capture Project (CCP) and Technology Development

Gardiner Hill (BP)

Terrestrial Sequestration: An Adaptation and Mitigation Strategy

Rose H. Dakin (Energetics, Inc.), Sarah M. Forbes

Technological Options of Eco-Friendly Power Generation as Key Factor for Reducing Carbon Intensity for Improved Life Styles of Remote Areas in India

Rajendra Prasad (Central Mining Institute, India)

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Ocean Dynamics

Chair: Kanwal Mahajan (NETL)

Agenda

A Chance to Sequester Carbon Dioxide into Thermohaline Currents

Wolfgang Arlt (TU Berlin)

Field Experiments on the Biological Impacts of Deep-Sea CO₂ Injection

James P. Barry (Monterey Bay Aquarium Research Inst.), Kurt R. Buck, Jeff C. Drazen, Mario N. Tamburri, Brad A. Seibel, Edward T. Peltzer, Peter G. Brewer

Studies of the Consequences of Ocean Carbon Sequestration Using Los Alamos Ocean Models

Shaoping Chu (LANL), Scott Elliott, Mathew Maltrud, Fei Chai, Francisco Chavez

Laboratory, Field and Modeling Studies of CO₂ Hydrate Composite Particles Formed by Direct Injection of CO₂ in the Ocean

Costas Tsouris (ORNL), Liyuan Liang, David Riestenberg, Olivia West, Sangyong Lee, Jorge Gabitto, Peter Brewer, Ed Peltzer, Eric Adams

Long-term Ocean Carbon Sequestration by the Addition of Macronutrient

Ian S. F. Jones (Columbia Univ.), Ken Caldeira

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Capture and Separation - Sorbents

Chair: Michael Knaggs (NETL)

Agenda

Absorption of CO₂ by Aqueous Diethanolamine Solutions in a Vortex Tube Gas-Liquid Contactor and Separator

Daniel Wendt (INEL), Michael McKellar

Properties of Concentrated Aqueous Potassium Carbonate/Piperazine for CO₂ Capture

J. Tim Cullinane (Univ. of Texas), Gary T. Rochelle

Capture of Carbon Dioxide from Flue Gas Using a Cyclic Alkali Carbonate-based Process

David A. Green (Research Triangle Park), Raghubir P. Gupta, Brian S. Turk, William J. McMichael, Jeffrey W. Portzer

ECONAMINE FGSM Plus: An Enhanced Amine Based CO₂ Capture Process

Satish Reddy (Fluor Daniel), C. A. Roberts

Amine Based CO₂ Capture from Gas Turbines

Mark Simmonds (BP plc, UK), P. Hurst, M. B. Wilkinson, S. Reddy, S. Khambaty

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Sequestration - Geologic Sinks (1)

Chair: Scott Stevens (ARI)

Agenda

Enhanced Coal Bed Methane (CBM) Recovery and CO₂ Sequestration in an Unmineable Coal Seam

Gary Cairns (Consol Energy)

Pore Pressure Dependent Changes in Permeability and Its Effects on CO₂ Enhanced Coalbed Methane Recovery

Ji Quan Shi (Imperial College London, UK), Sevet Durucan

Kinetics of the Physical Changes and Gas Storage Capacity Induced by Carbon Dioxide Sequestration in Coal

C. Ozgen Karacan (Penn State), Phillip M. Halleck, Gareth D. Mitchell, Abraham S. Grader

Capture and Use of Coal Mine Ventilation Air Methane

Deborah A. Kosmack (CONSOL Energy, Inc.), Richard A. Winschel, Kenneth P. Zak

The Coal Sequestration Project: Results of the Allison and Tiffany ECBM Field Studies

Scott Reeves (Advanced Resources International)

In-Situ Study of Carbon Dioxide Sequestration in Saline Brine Formations

M. Mercedes Maroto-Valer (Penn State University), Matthew L. Druckenmiller, John M. Andresen

CO₂ Reduction through Underground Storage: New Developments in the Realization of a Full-Scale Demonstration Project in the Netherlands

Peter Stollwerk (NOVEM, Netherlands) Ian Willem Dijk, Bert Stuij, Willem van Groothees

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Breakthrough Concepts - Mineralization and Biological

Chair: *Heino Beckert (NETL)*

Agenda

Microwave Enhancement of Reaction Kinetics in Serpentine Dehydroxylation Reactions

William B. White (Penn. State), Michael R. Silsbee, Joe Kearns

Development of a CO₂ Sequestration Module by Integrating Mineral Activation and Aqueous Carbonation

M. Mercedes Maroto-Valer (Penn State University), Daniel J. Fauth, Matthew E. Kuchta, Yinzhi Zhang, Yee Soong

Investigations of the CO₂ Sequestration Reaction Mechanisms that Govern Serpentine Mineral Carbonation

Michael J. McKelvy (Arizona State Univ.), Andrew V. G. Chizmeshya, Jason Diefenbacher, George Wolf, Hamdallah Bearat

The Anaerobic Bioreactor Controlled Landfill Technology for Solid Waste Management and Greenhouse Gas Abatement

Don C. Augenstein (Institute for Environmental Management), John R. Benemann, Ramin Yazdani

The Controlled Eutrophication Process: Microalgae Biofixation of CO₂ for Biofuels Production and Fertilizer Recycling at the Salton Sea, California

David E. Brune (Clemson), G. Schwartz, J. R. Benemann, M. J. Massingill, J. C. Van Olst, J. A. Carlberg

Comparison of Marine Microalgae Culture Systems

Joseph C. Weissman (Bellsouth), John R. Benemann

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Programs and Policy (2)

Chair: Gardiner Hill (BP)

Agenda

CO2 Capture Project's Storage, Monitoring and Verification (SMV) Project: Progress through Partnerships

Craig Lewis (Chevron Texaco)

Technology Roadmap for Biofixation of CO2 and Greenhouse Gas Abatement with Microalgae

John Benemann (Int'l Network on Biofixation of CO2 and Greenhouse Gas Abatement with Microalgae), Paola Pedroni, John Davidson, Heino Beckert, Perry Bergman

The Importance of Technological Innovation in Policy Assessments of Carbon Capture and Storage

Edward S. Rubin (Carnegie Mellon), Keywan Riahi, Sonia Yeh, David A. Hounshell, Leo Schrattenholzer

Analysis and Status of Carbon Management GIS Data

H. J. Herzog (MIT), D. S. Cheng, A. M. Smith, T. E. Curry

Education & Outreach Programs: Important Factors in Sequestration's Future

Patrick R. Esposito (August Systems), C. David Locke

Dynamic Potential of Agriculture and Forestry to Contribute to Greenhouse Gas Mitigation through Sequestration

Bruce A. McCarl, Heng-Chi Lee, Dhazn Gillig, and Brian Murray

Timescales for CO2 Storage: How Long Is Long Enough?

David Keith (Carnegie Mellon), Minh Ha Duong

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Capture and Separation - Advanced Concepts

Chair: Raghubir Gupta (RTI)

Agenda

Ammonia Carbonation and Biomass Pyrolysis for Carbon Management

James W. Lee (ORNL), Danny Day, Robert J. Evans, Rongfu Li

CO₂ Capture in SOFC-GT Systems

Daniel Jansen (Energy Research Center, Netherlands), Jan Wilco Dijkstra

Experimental Study to Capture CO₂ in the Flue Gas from a Coal-fired Research Facility by Spraying Aqueous Ammonia to Produce a Modified NH₄HCO₃ Fertilizer

Scott Smouse (NETL), Li Zhen-zhong, Zhang Yun, Li Cheng-zhi, Dong Jiang-xun, Wang Yang, James M. Ekmann

An Experimental Investigation into the Use of Molten Carbonate Fuel Cells to Capture CO₂ from Gas Turbine Exhaust Gases

Michael B. Wilkinson (BP Exploration, UK), A. Amorelli, P. Bedont, P. Capobianco, B. Marcenaro, F. Parodi, A. Torazza

Developments in the SIMTECHE Process-Separation of CO₂ From Coal Syngas by Formation of Hydrates

S. S. Tam, R. P. Currier, J. S. Young, G. K. Anderson, L. A. Le, D. F. Spencer

Chemical Extraction of Carbon Dioxide from Air to Sustain Fossil Energy by Avoiding Climate Change

Manvendra K. Dubey (LANL), H. J. Ziock, G. H. Rueff, J. J. Colman, K. S. Lackner

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Sequestration - Geologic Sinks (2)

Chair: Neeraj Gupta (Battelle)

Agenda

Mixing Rates of Supercritical CO₂ with Brine in Deep Sedimentary Formations

B. Peter McGrail (Pacific Northwest Nat'l. Lab.), Mark D. White, Paul F. Martin, H. Todd Schaef

Biomimetic and Geologic Mineralization Approaches to Carbon Sequestration

Gillian M. Bond (New Mexico Tech), Brian McPherson, Aaron Abel, Peter Lichtner, Reid Grigg, John Stringer

Direct Measurements of pH and Dissolved CO₂ Concentrations in H₂O-CO₂-NaCl Mixtures to Supercritical Conditions

H. Todd Schaef (Pacific Northwest Nat'l Lab.), B. Peter McGrail, Paul F. Martin

Laboratory and Model Tests at Reservoir Conditions for CO₂-Brine-Carbonate Rock Systems Interactions

Reid B. Grigg (New Mexico Petroleum Recovery Research Center), Brian J. McPherson, Robert K. Svec

Experimental Carbon Dioxide-Brine-Limestone Interaction at Elevated Temperature and Pressure: Implications for the Geologic Sequestration of CO₂ in Deep Saline Brines

Robert J. Rosenbauer (USGS), Tamer Koksalan

Reactive Transport Modeling of Dissolved CO₂ in the Caprock Base During CO₂ Sequestration (Sleipner Site, North Sea)

Irina Gaus (French Geological Survey), France, Mohamed Azaroual

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MMV - Geologic

Chair: Sally Benson (LBNL)

Agenda

Development of a Well-Testing Program for a CO₂ Sequestration Pilot in a Brine Formation

Christine Doughty (Lawrence Berkeley NL), Karsten Pruess, Sally M. Benson

Monitoring and Verification at the Frio Pilot Test

Larry Myer (Lawrence Berkley), Sally Benson, David Cole, Christine Doughty, William Foxall, William Gunter, Mike Hoversten, Susan Hovorka, Kevin Knauss, Paul Knox, Ernie Majer, Robin Newmark, Tommy Phelps, Karsten Pruess, Don Vasco

Gas Chemistry and Isotope Monitoring during the Lost Hills, CA, CO₂ Injection Test

David Cole (ORNL), J. Horita, M. C. van Soest, B. M. Kennedy, M. F. Morea

Soil Gas as a Monitoring Tool of Deep Geological Storage of Carbon Dioxide: Results from the Encana EOR Project in Weyburn, Saskatchewan (Canada)

M. H. Strutt (British Geological Survey, UK), S. E. Beaubien, J. C. Baubron, C. Cardellini, R. Granieri, D. G. Jones, S. Lombardi, L. Penner, F. Quattrocchi, N. Voltatorni

The IEA Weyburn CO₂ Monitoring and Storage Project-Geological and Hydrogeological Characterization and Input to Long-term Assessment of Fate of CO₂

Steve Whittaker (Saskatchewan Industry and Resources, Canada), Mike Stenhouse, Ben Rostron, Wei Zhou

Greenhouse Gas Reductions in the Mining Sector: Historic Trends and Future Options

Craig Idso (Center for the Study of Carbon Dioxide and Global Change), John M. Wootten

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Case Studies and Systems Analysis (1)

Chair: Edward Rubin (Carnegie Mellon)

Agenda

The Future of Coal in a Carbon Constrained World: Implications of Carbon Capture and Storage Technologies

H. J. Herzog (MIT), J. R. McFarland, P.F. Cossa, H. D. Jacoby

Experience with a Corporate-wide Energy and Greenhouse Gas Inventory System

Susann Nordrum (Chevron/Texaco), Arthur Lee

Co-Production of Hydrogen, Electricity and CO₂ from Coal using Commercially-ready Technology

Thomas G. Kreutz (Princeton), Paolo Chiesa, Stefano Consonni, Robert H. Williams

Co-Production of Hydrogen and Electricity from Fossil Fuels with CO₂ Capture

Robert H. Socolow (Princeton), Thomas G. Kreutz, Robert H. Williams, Stefano Consonni, Paolo Chiesa

Conceptual Design of Optimized Fossil Hydrogen Energy Systems with Capture and Sequestration of Carbon Dioxide

Joan M. Ogden (Princeton Environmental Inst), Elizabeth Kaijuka, Wei Wang

Controlling Fossil Power Plant CO₂ Emissions: Near-term and Long-range Views

John L. Marion (ALSTON Power Inc), Carl Bozzuto, Herb Andrus, Michael McCartney, Sven Gunnar Sundkvist, Timothy Griffin

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Capture - Feasibility Assessments

Chair: Dale Simbeck (SFA Pacific)

Agenda

Comparative Assessments of CO₂ Capture Options for Existing Coal-fired Power Plants

Edward S. Rubin (Carnegie Mellon), Chao Chen, Anand B. Rao

CarBen: A New Model for Assessing Cost-effective GHG Emission Reduction Strategies

Vello A. Kuuskraa, David Beecy, Scott Klara, Phillip Dipietro

CO₂ Capture: Baseline Costs for Four Real-life Scenarios

Iain W. Wright (BP Exploration), Satish Reddy

A CO₂ Capture Systems Analysis Model for the Support of the U.S. DOE Carbon Sequestration Program's Technology Roadmap

Phil Dipietro (Energetics, Inc.), Scott Klara, Jared Ciferno

Evaluation of Potential Cost Reductions from Improved CO₂ Capture Systems

Edward S. Rubin (Carnegie Mellon), Anand B. Rao, M. Granger Morgan

Electricity for California and CO₂ for Enhanced Oil Recovery: Prospects for IGCC Power Plants in the Golden State

John Ruether, Patricia Rawls, Richard Weinstein, and Albert Herman

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Sequestration - Geologic Feasibility Assessment

Chair: Gardiner Hill (BP)

Agenda

An Initial Set Of Working Hypotheses Concerning Some Chemical and Physical Events when CO₂ is Injected into a Coalbed

Curt M. White (NETL)

Specific Sequestration Volumes: A Useful Tool for CO₂ Storage Capacity Assessment

Sean T. Brennan (USGS), Robert C. Burruss

A Vintage-based Approach for Assessment Geologic Sequestration Options for U. S. Power Plants

Robert T. Dahowski (Pacific Northwest Nat'l Lab.), J. J. Dooley

The Economics of Geological Storage of CO₂ in Australia-An Update

Guy Allinson (APCRC GEODISC, Australia)

An Update on the Midcontinent Interactive Digital Carbon Atlas and Relational Database (MIDCARB) and its Future

Scott W. White (Kansas Geological Survey), Timothy R. Carr, Jim A. Drahovzal, Brandon C. Nuttall, John A. Rupp, Beverly Seyler, Ernie Slucher, Joe Wells

Geologic Storage of CO₂ from Refining and Chemical Facilities in the Midwestern U.S.

Neeraj Gupta (Battelle), Bruce Sass, Sandip Chattopadhyay, Joel Sminchak, Peng Wang, Tony Espie

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Sequestration - Terrestrial Feasibility Assessments

Chair: Sarah Forbes (NETL)

Agenda

Soil Carbon Sequestration to Mitigate Increases in Atmospheric CO₂

John Kimble (USDA/NRCS/NSSC), Ron Follett, Rattan Lal

Carbon Storage in Prairie Wetlands of the United States and Ideas for Future Research

Robert A. Gleason (USGS), Ned H. Euliss, Alan Olness, Bryant Browne

Land-use Options for Carbon Sequestration in Reclaimed Minelands

Pierre-Andre Jacinthe (Ohio State Univ.), R. Lal, M. Ebinger

Forest Management Effects on Carbon Sequestration at Howland Forest, Maine, USA

Neal Scott (Woods Hole Research Center), David Hollinger, Eric Davidson, Stewart Goltz, Chuck Rodrigues, John Lee, Holly Hughes, Jeremiah Walsh, Phil Malerba

Carbon Cycle Impacts of Plantation Landowners as Joint Producers of Timber and Fuel: Towards Incentive-compatible Modeling of Land use Change Policy Impacts

Peter Read (Massey University, New Zealand), Jonathan Lermitt

C-Lock (patent pending)-A Method for Maximizing Carbon Sequestration in Agricultural Ecosystems

Patrick R. Zimmerman (So. Dakota School of Mines and Technology), Maribeth Price, William Capehart, Lee Vierling, Changhui Peng, Genet Duke, Fred Kopp, Patrick Kozak

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Case Studies and Systems Analysis (2)

Chair: Howard Herzog (MIT)

Agenda

Decarbonized Hydrogen and Electricity from Natural Gas

Stefano Consonni (Princeton), Frederico Vigano

CO2 Capture and Storage-The Essential Bridge to the Hydrogen Economy

Dale R. Simbeck (SFA Pacific, Inc.)

Power Generation with 100% Carbon Capture and Sequestration

Stephen E. Doyle (Clean Energy Systems, Inc.), Roger Anderson

Multipollutant Emissions Reduction and CO2 Control: The Costs of Regulatory Uncertainty

Timothy L. Johnson (Carnegie Mellon), David W. Keith

CO2 Capture Project: Technology Selection Process 'Focusing for Success'

Helen Kerr (BP), Torgeir Melien, Mario Molinari

Policy Issues and Effectiveness Evaluation of Carbon Abatement Strategies: Case Study of Indian Transportation Sector

Sita Anand (PA Consulting Group, India), Amit Tanwar

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Capture - Oxyfuel Combustion

Chair: John Marion (Alston Power Inc)

Agenda

Oxyfuel Conversion of Heaters and Boilers for CO2 Capture

Mark Simmonds (BP plc, UK), J. C. Boden, M. B. Wilkinson, V. White, R. Panesar, D. A. Cross

Oxy-Combustion Field Demonstration Project

Mark A. Douglas (Advanced Combustion Technologies), Ligang Zheng, Aqil Jamal, Jim McArthur, Alex Berruti

Greenhouse Gas Emissions Control by Oxygen Firing in Circulating Fluidized Bed Boilers

John L. Marion (ALSTOM Power Inc), Nsakala ya Nsakala, Gregory N. Liljedahl, Carl R. Bozzuto, Scott Klara

Oxyfuel Chemical Looping for CO2 Capture

Mark Simmonds (BP plc, UK), J. C. Boden, M. B. Wilkinson, P. Hurst

The Impact of Exhaust Recirculation and Oxygen Enrichment on Gas Turbine Power Plants

Jeffrey N. Phillips (Fern Engineering, Inc.)

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Sequestration - Geologic Sinks(3)

Chair: Karen Cohen (NETL)

Agenda

Co-generation, Ethanol Production and CO2 Enhanced Oil Recovery: A Model for Environmentally and Economically Sound Linked Energy Systems

Martin K. Dubois (Univ. of Kansas), Scott W. White, Timothy R. Carr

Carbon Dioxide Storage in the In Salah Gas Project Algerian Central Sahara

Clive Bishop (BP), Fred Riddiford, Tourqui Abdelaziz, Brian Taylor, Erik Hulm

Fluid-rock Interaction at the Weyburn CO2-injection Enhanced Oil Recovery Site, Saskatchewan, Canada

Kyle Durocher (Univ. of Calgary, Canada), I. Hutcheon, M. Shevalier, B. Mayer, W. Gunter, E. Perkins

Injection of CO2 into an Unconfined Aquifer Located Beneath the Colorado Plateau, Central Utah

Stephen P. White (Industrial Research Ltd.), R. G. Allis, J. N. Moore, M. C. Adams, T. Chidsey, C. Morgan

Geochemical Implications of CO2 Sequestration in Arkosic Sandstone Reservoirs

James L. Krumhansl (Sandia), Hank R. Westrich, C. Jove-Colon

Transport and Dispersion Processes for CO2 in the Unsaturated Zone and Surface Layer

Curt M. Oldenburg (Lawrence Berkeley), Andre A. J. Unger

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Risk Assessment - Geologic

Chair: Sarah Forbes (NETL) and Susan Hovorka (TX BEG)

Agenda

The IEA Weyburn CO2 Monitoring and Storage Project-Treatment of Abandoned Wells in the Long-term Assessment of the Fate of CO2

Michael J. Stenhouse (Monitor Scientific LLC), W. Zhou, R. Chalaturnyk, F. Moreno

Environmental Assessment of Geologic Storage of CO2

H. J. Herzog (MIT), Jason J. Heinrich, D. M. Reiner

Toward a Long-term Liability Framework for Geologic Carbon Sequestration

H. J. Herzog (MIT), M. A. de Figueiredo, D. M. Reiner

Progress Towards Understanding Risk From Long Term Storage of CO2

Tony Espie (BP Exploration)

Reassessing the Geological Risks of Seals Failure for Saline Aquifers and EOR Projects

S. Julio Friedmann (Univ. of Maryland)

Carbon Dioxide Extraction from Ambient Air

Frank Zeman (Columbia Univ), Klaus Lackner

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Accounting and Market Considerations

Chair: Arthur Lee (ChevronTexaco)

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Accounting Rules and Guidelines for Forest Carbon Sequestration

Richard A. Birdsey (USDA Forest Service)

Accounting Procedures for Estimating GHG Credits from CO2 Capture and Storage Activities

Jette Findsen (SAIC), Sarah Forbes

Legal and Regulatory Frameworks for Emissions Trading and Offsets: Getting the Market to Work

Orestes Anastasia (SAIC)

How Standardized GHG Offset Credits Will Enable a More Liquid Marketplace

R. Todd Jones (AgCert International LLC), George Bolton, John McMorris

Developing Markets for CO2 Emissions

Vello A. Kuuskraa, David Beecy, Scott Klara, Phillip Dipietro

Assessment of Terrestrial Carbon Sequestration Options within a United States Market for Greenhouse Gas Emissions Reductions

Ronald D. Sands (Joint Global Change Research Institute), Bruce A. McCarl, Dhazn Gillig

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MMV - Terrestrial

Chair: John Litynski (NETL)

Agenda

Carbon Quantification of Diverse Landscapes Using Multi-spectral 3D Digital Aerial Imagery: Complex Pine Savanna in Belize as a Case Study

Sandra Brown (Winrock International), Matt Delaney, Dana Slymaker

The Climate Action Project Research Initiative

William G. Stanley (The Nature Conservancy)

Total Carbon Measurement from Intact Soil Cores with Laser-induced Breakdown Spectroscopy (LIBS)

David D. Breshears (LANL), Michael H. Ebinger, David A. Cremers, Clifton W. Meyer, Kelly L. Gorrard, Pat J. Unkefer

Microbial Communities, Carbon, and Nitrogen in Mine Soils Reclaimed with Fly Ash and Biosolids Amendments

Anthony V. Palumbo (ORNL), L. Suzanne Fisher, Jana R. Tarver, W. Lee Daniels, Zamin Yang, Sonia M. Tiquia, Liyou Wu, Jizhong Zhou, Jim Amonette

Microbial Signatures of Soil Carbon Sequestration

Pat Unkefer (LANL), Christopher Kitts, Michael Ebinger, David Breshears and David Cremers

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